

Name: _____

p1029: Box multiplication of linear binomials (v18)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	$6x$	3	
$2x$	$12x^2$	$6x$	$12x^2 + 6x + 24x + 12$
4	$24x$	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(3x + 2)$ and $(5x + 9)$.

*	$3x$	2	
$5x$	$15x^2$	$10x$	
9	$27x$	18	

ANSWER: $15x^2 + 37x + 18$

Question 2

Use the box method to multiply $(7x - 2)$ and $(5x + 4)$.

*	$7x$	-2
$5x$	$35x^2$	$-10x$
4	$28x$	-8

ANSWER: $35x^2 + 18x - 8$

Question 3

Use the box method to multiply $(2x + 7)$ and $(-5x - 9)$.

*	$2x$	7
$-5x$	$-10x^2$	$-35x$
-9	$-18x$	-63

ANSWER: $-10x^2 - 53x - 63$